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NPIC/R-90/64
February 1964

PHOTOGRAPHIC INTERPRETATION REPORT

SA-1 SAM SITES, MOSCOW, USSR,
SOUTHEAST QUADRANT

DECLASSIFICATION REVIEW BY NIMA / DoD



CIA



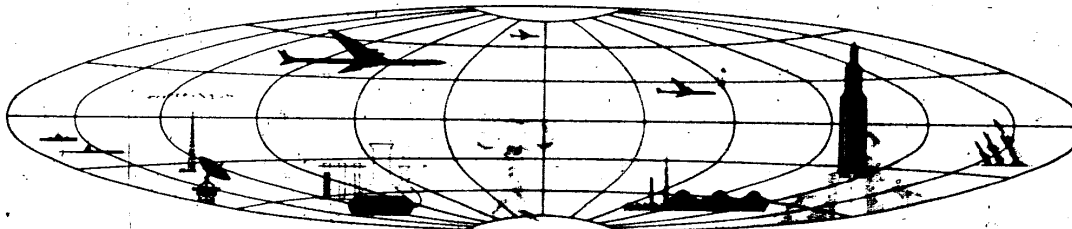
DIA

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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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downgrading and declassification

TOP SECRET RUFF

PHOTOGRAPHIC INTERPRETATION REPORT

SA-1 SAM SITES, MOSCOW, USSR,
SOUTHEAST QUADRANT

NPIC/R-90/64
February 1964

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

TOP SECRET RUFF

TOP SECRET RUFF

NPIC/R-90/64

PREFACE

In order to provide a foundation for the continuing analysis of Moscow air defenses, a detailed survey of KEYHOLE photography of SA-1 SAM sites surrounding the city has been undertaken under NPIC Project JN-212/62. This report, a partial answer to CIA requirement C-RR3-80375, covers the sites in the southeast quadrant (Figure 1). The sites in the northeast quadrant are covered in NPIC/R-64/64, in the southwest in NPIC/R-71/64, and in the northwest in NPIC/R-81/64.

For each site a photograph is provided, significant changes since the first KEYHOLE coverage are noted, and all KEYHOLE photographic coverage through [REDACTED] is listed. All map references are to US Air Target Charts (USATC), Series 200, second edition. No information derived from other photography or collateral sources is included.

25X1D

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TOP SECRET RUFF

TOP SECRET RUFF

NPIC/R-90/64

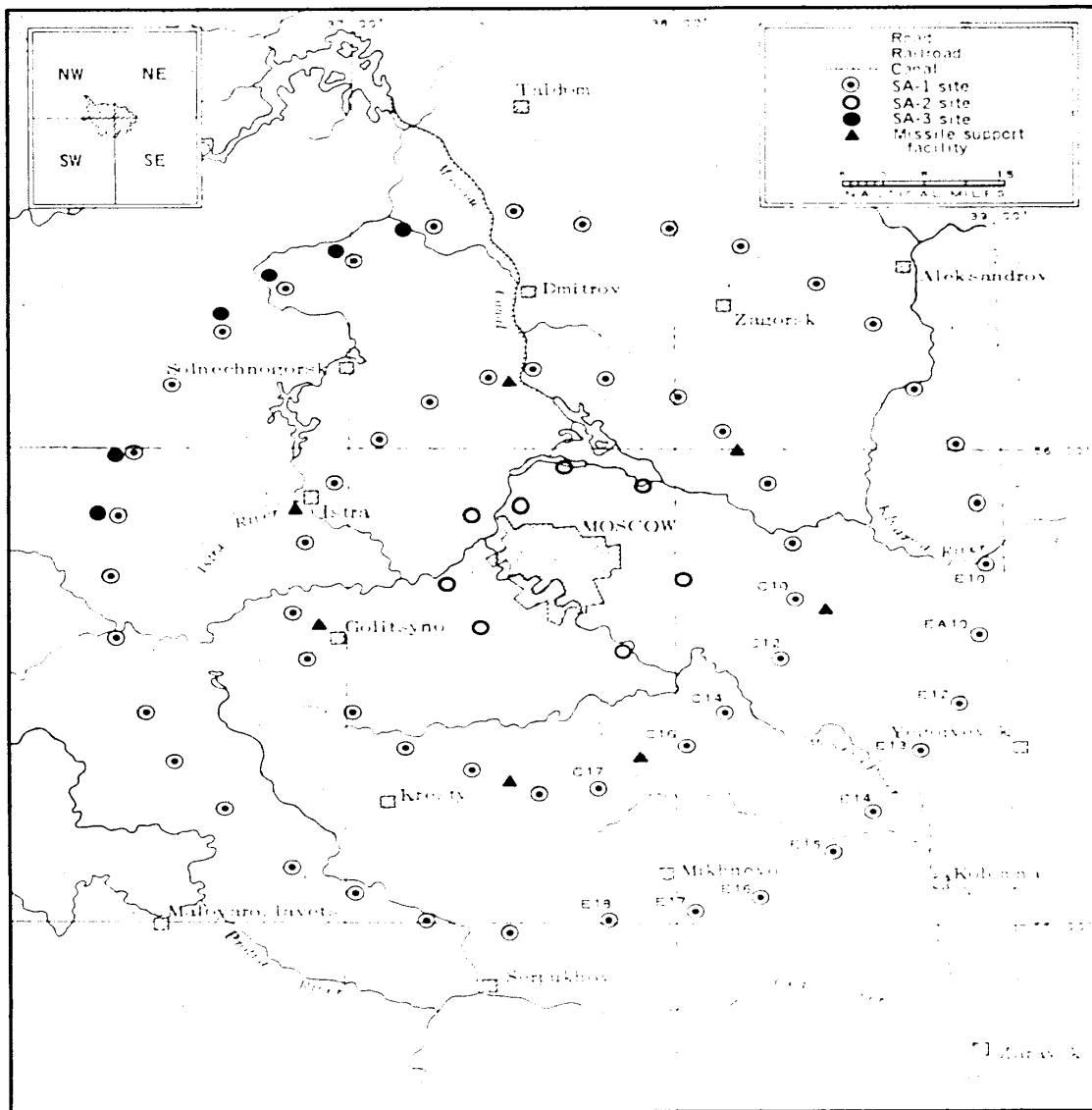


FIGURE 1. LOCATION MAP.

TOP SECRET RUFF

TOP SECRET RUFF

NPIC/R-90/64

MOSCOW SAM SITE C10-1

25X1A

25X1D

BE No: [REDACTED]
NPIC Target No: 0167-121-B
Coords: 55-40N 38-21E
Map Ref: DIA Sheet 0167-5HL, Apr 63 (S)
First KEYHOLE coverage: [REDACTED]

Status then: undetermined because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. At that time, a small unidentified building (Figure 2, Item 1) was observed in a clearing midway between the guidance and launch areas. No other apparent changes were observed at the site between [REDACTED]

25X1D

25X1D

25X1D

25X1D

25X1D

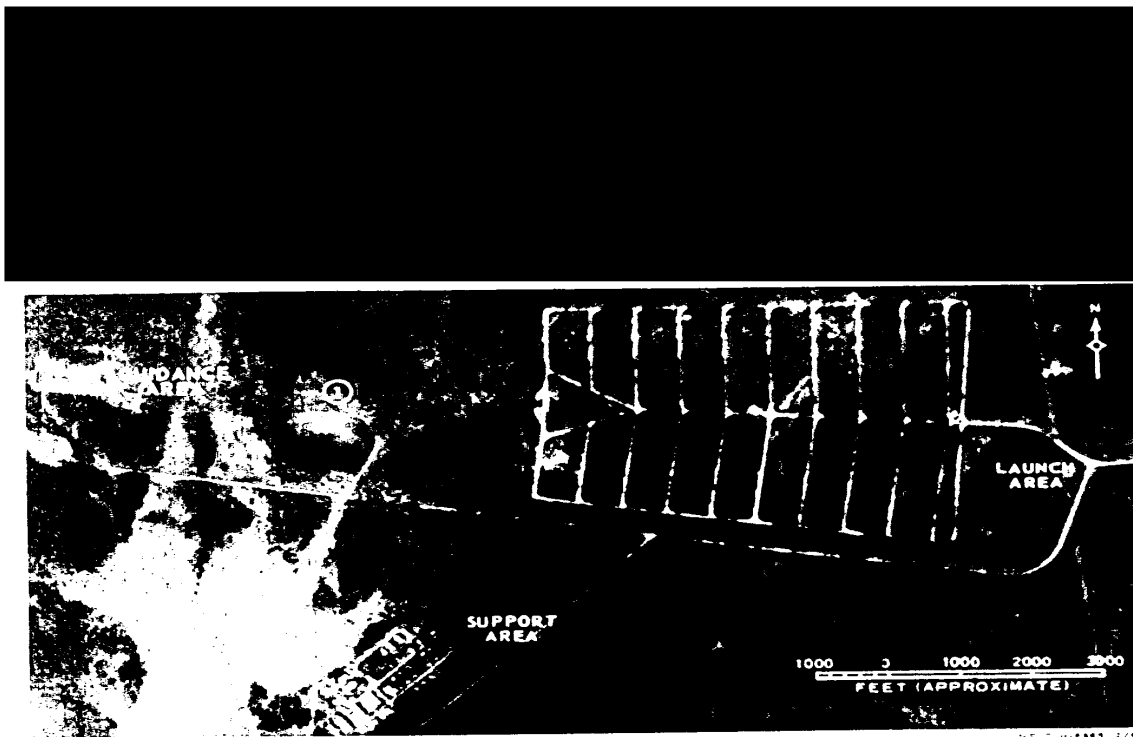


FIGURE 2. MOSCOW SAM SITE C10-1, [REDACTED]

- 1 -

25X1D

TOP SECRET RUFF

TOP SECRET RUFF

NPIC/R-90/64

25X1A

MOSCOW SAM SITE C12-1

25X1D

BE No: [REDACTED]

darkness

NPIC Target No: 0167-121-C

Coords: 55-32N 38-22E

Map Ref: DIA Sheet 0167-5HL, Apr 63 (S) 12

First KEYHOLE coverage: [REDACTED]

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No apparent changes were observed at the site between [REDACTED] (Figure 3).

Status then: undetermined because of haze and

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)



FIGURE 3. MOSCOW SAM SITE C12-1.

25X1D

- 3 -

TOP SECRET RUFF

TOP SECRET RUFF

NPIC/R-90/64

25X1D

25X1D

MOSCOW SAM SITE C14-1

25X1A

25X1D 25X1D

BE No: [REDACTED]
NPIC Target No: 0167-121-D
Coords: 55-27N 38-09E
Map Ref: DIA Sheet 0167-5HL, Apr 63 (S)
First KEYHOLE coverage: [REDACTED]

Status then: undetermined because of haze and darkness

The first clear coverage of the site on

KEYHOLE photography was in [REDACTED] at which time the site was complete. On [REDACTED] two cleared areas (Figure 4, Items 1 and 2) were first observed. Later, on [REDACTED] a third clearing (Item 3), 550 by 230 feet, containing several small structures was identified. A building (Item 4) 100 by 25 feet, which was under construction in [REDACTED] had been completed by [REDACTED]

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

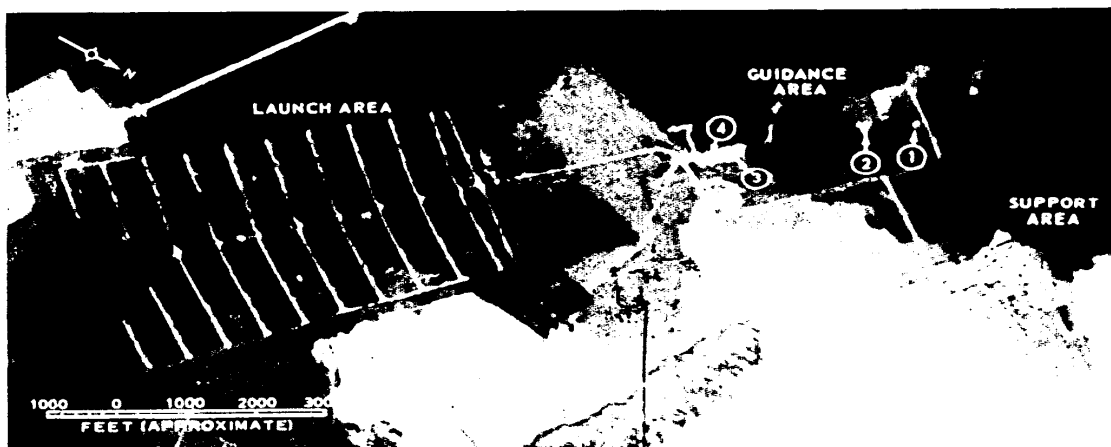
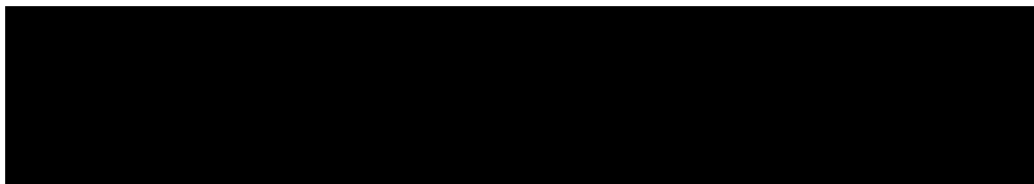


FIGURE 4. MOSCOW SAM SITE C14-1, [REDACTED]

25X1D

TOP SECRET RUFF

TOP SECRET RUFF

NPIC, R-90/64

MOSCOW SAM SITE C16-1

25X1A

25X1D

BE No: [REDACTED]

darkness

NPIC Target No: 0167-121-E

Coords: 55-22N 37-53E

Map Ref: DIA Sheet 0167-5HL, Apr 63 (S)

First KEYHOLE coverage: [REDACTED]

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No apparent changes were observed at the site between [REDACTED] (Figure 5).

Status then: undetermined because of haze and

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

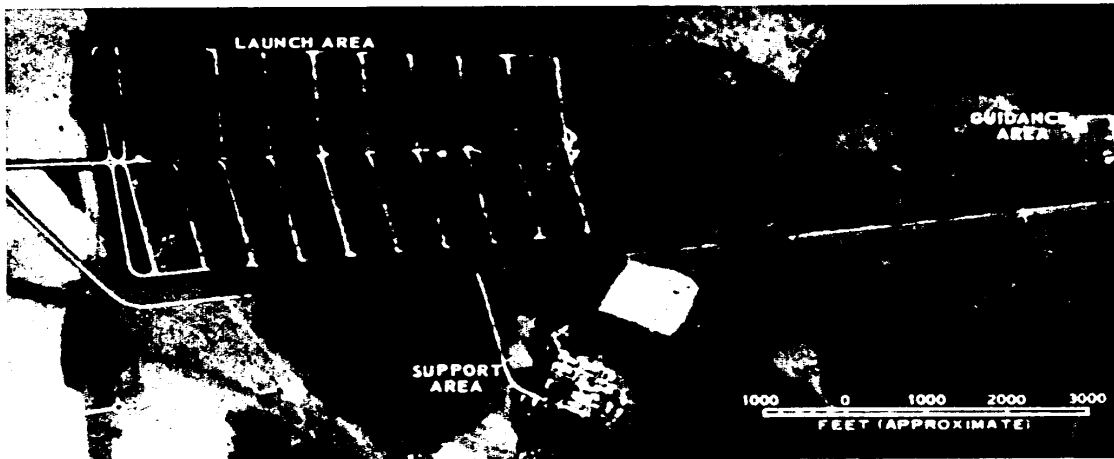
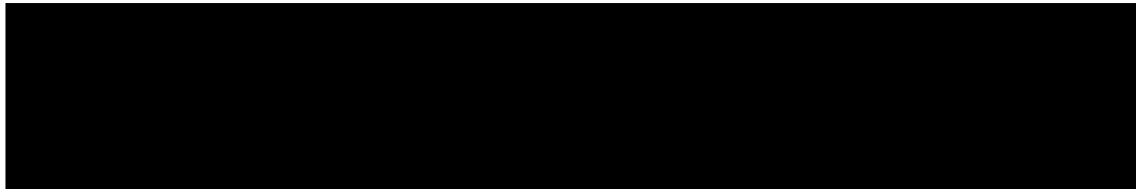


FIGURE 5. MOSCOW SAM SITE C16-1, [REDACTED]

25X1D

TOP SECRET RUFF

TOP SECRET RUFF

25X1D

NPIC/R-90/64

MOSCOW SAM SITE C17-1

25X1A

BE No: [REDACTED]
NPIC Target No: 0167-121-F
Coords: 55-15N 37-46E
Map Ref: DIA Sheet 0167-5HL, Apr 63 (S)
First KEYHOLE coverage: [REDACTED]
Status then: undetermined because of haze and darkness

KEYHOLE photography was in [REDACTED] at which time the site was complete. On photography of [REDACTED] a road (Figure 6, Item 1) was first observed under construction just west of the launch area. As of [REDACTED] construction of the road had progressed, but had not been completed. No apparent changes were observed at the site between [REDACTED]

25X1D

25X1D

25X1D

25X1D

The first clear coverage of the site on [REDACTED]

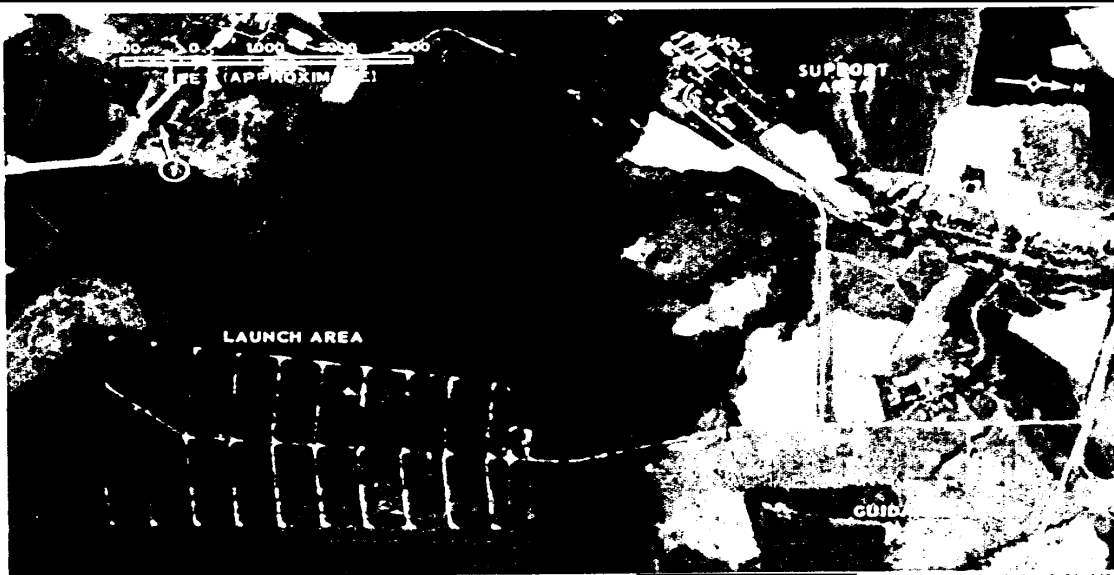
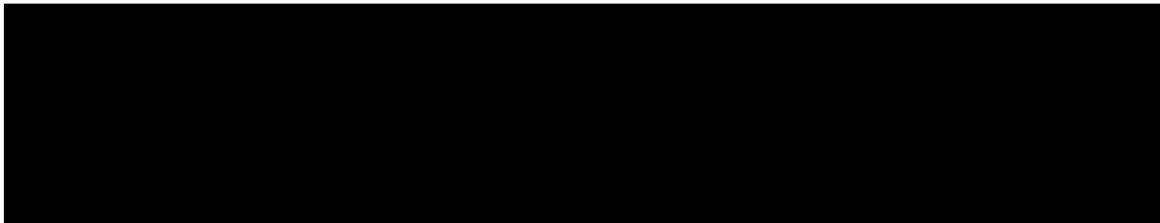


FIGURE 6. MOSCOW SAM SITE C17-1.

25X1D

TOP SECRET RUFF

TOP SECRET RUFF

NPIC/R-90/64

25X1D

MOSCOW SAM SITE E10-1

25X1A

BE No: [REDACTED]
NPIC Target No: 0167-122-A
Coords: 55-44N 39-54E
Map Ref: DIA Sheet 0167-5HL, Apr 63 (S)
First KEYHOLE coverage: [REDACTED]

Status then: undetermined because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. At that time,

three large warehouse-type buildings and several smaller, unidentified buildings (Figure 7, Item 1) were observed just south of the guidance area. In addition, an area of disturbed earth, but without any discernible structures, was observed on both sides of a stream (Item 2). Later, in [REDACTED] two additional areas (Items 3 and 5) of disturbed earth and one small unidentified building (Item 4) were observed. No apparent changes were observed at the site between [REDACTED]



FIGURE 7. MOSCOW SAM SITE E10-1, [REDACTED]

25X1D

TOP SECRET RUFF

25X1D

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TOP SECRET RUFF

NPIC/R-90/64

MOSCOW SAM SITE EA10-1

25X1A

25X1D

25X1D

BE No: [REDACTED]

and darkness

NPIC Target No: 0167-122-B

Coords: 55-37N 38-55E

Map Ref: DIA Sheet 0167-5HL, Apr 63 (S)

First KEYHOLE coverage: [REDACTED]

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No apparent changes were observed at the site between [REDACTED]

Status then: undetermined because of haze [REDACTED]

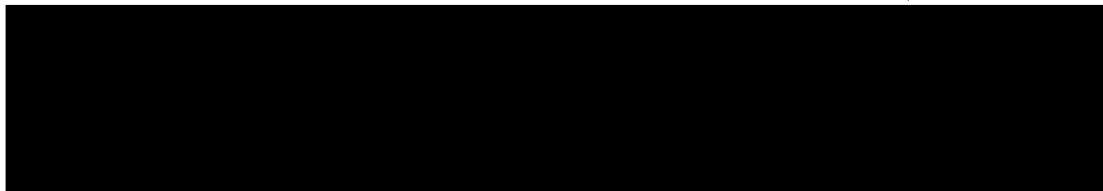
25X1D

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)



TOP SECRET RUFF

TOP SECRET RUFF

NPIC/R-90/64

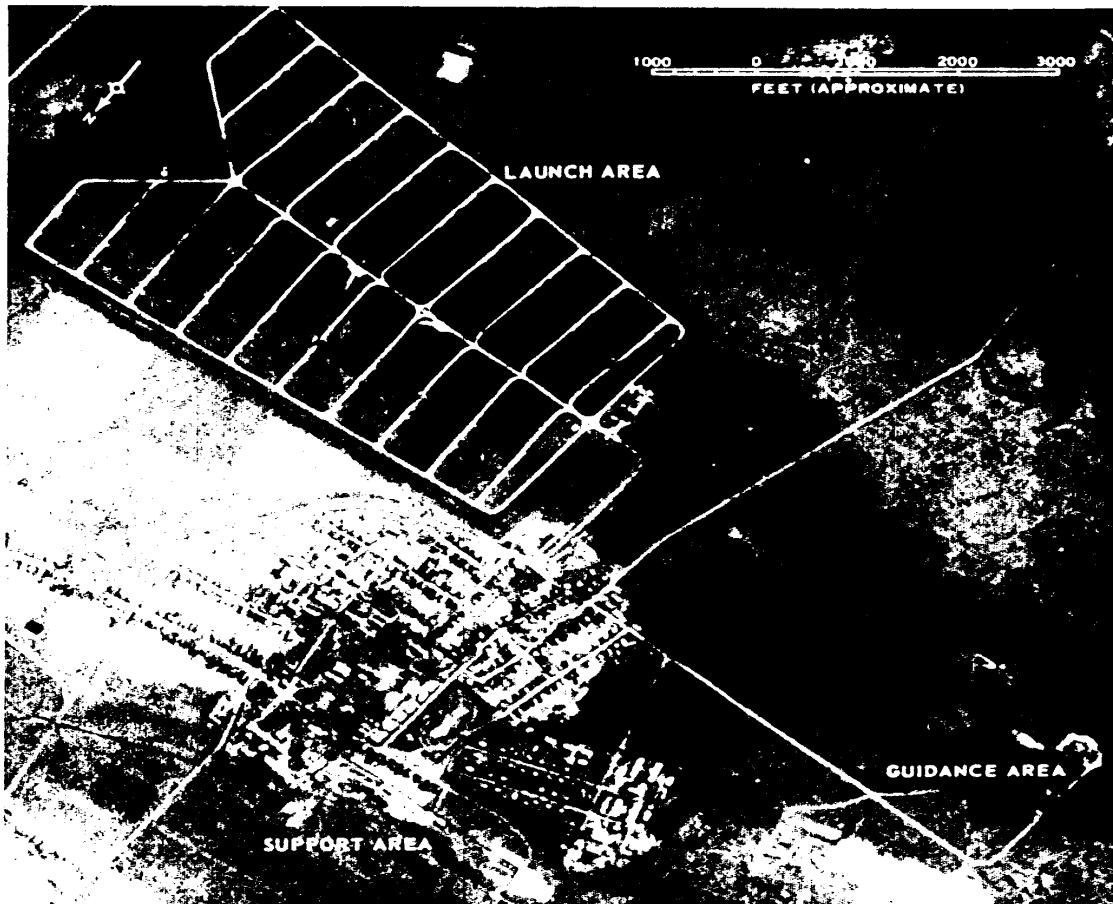


FIGURE 8. MOSCOW SAM SITE EA10-1. [REDACTED]

25X1D

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TOP SECRET RUFF

TOP SECRET RUFF

NPIC/R-90/64

25X1D

25X1A

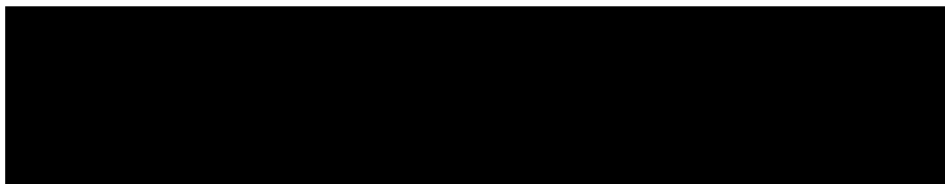
MOSCOW SAM SITE E12-1

BE No: [REDACTED]
NPIC Target No: 0167-122-C
Coords: 55-28N 38-49E
Map Ref: DIA Sheet 0167-5HL, Apr 63 (S)
First KEYHOLE coverage: [REDACTED]
Status then: undetermined because of haze
and darkness

The first clear coverage of the site on
KEYHOLE photography was in [REDACTED], at
which time the site was complete. Other than
minor ground scarring (Figure 9, Item 1) ob-
served at the centerline road of the launch area,
no significant changes were observed between

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)



25X1D

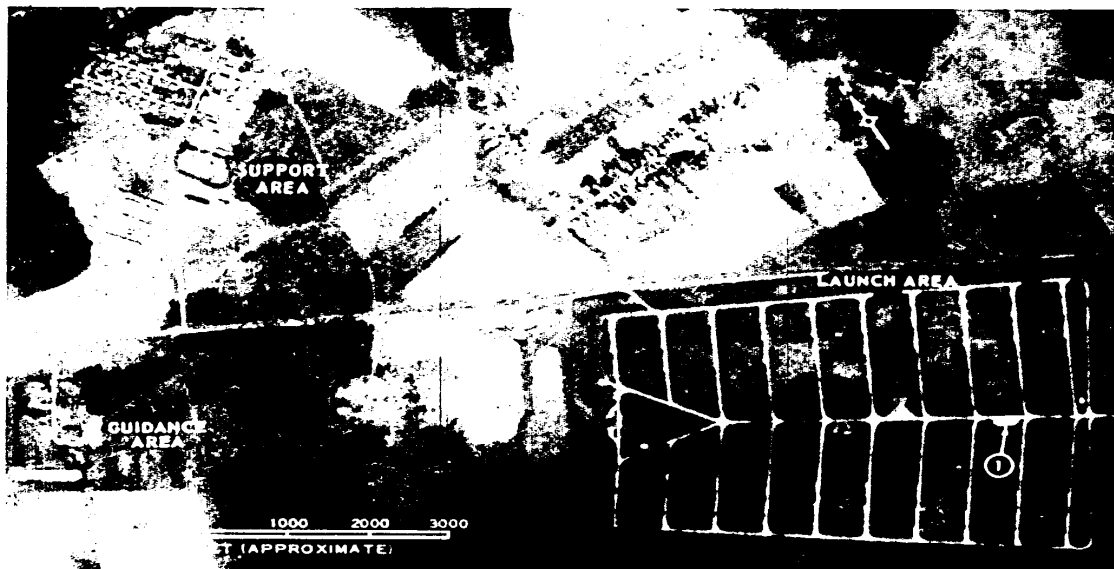


FIGURE 9. MOSCOW SAM SITE E12-1, [REDACTED]

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25X1D

TOP SECRET RUFF

TOP SECRET RUFF

NPIC/R-90/64

25X1A

MOSCOW SAM SITE E13-1

25X1D

BE No: [REDACTED]
NPIC Target No: 0167-122-D
Coords: 55-23N 38-43E
Map Ref: DIA Sheet 0167-5HL, Apr 63 (S)
First KEYHOLE coverage: [REDACTED]

KEYHOLE photography was in [REDACTED] at which time the site was complete. At that time, it was noted that an earthen wall (Figure 10, Item 1) had been constructed on three sides of the guidance area, possibly to prevent flooding of the area in inclement weather. No apparent changes were observed at the site between [REDACTED]

25X1D
25X1D

Status then: undetermined because of haze and darkness

The first clear coverage of the site on

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

25X1D

25X1D

25X1D

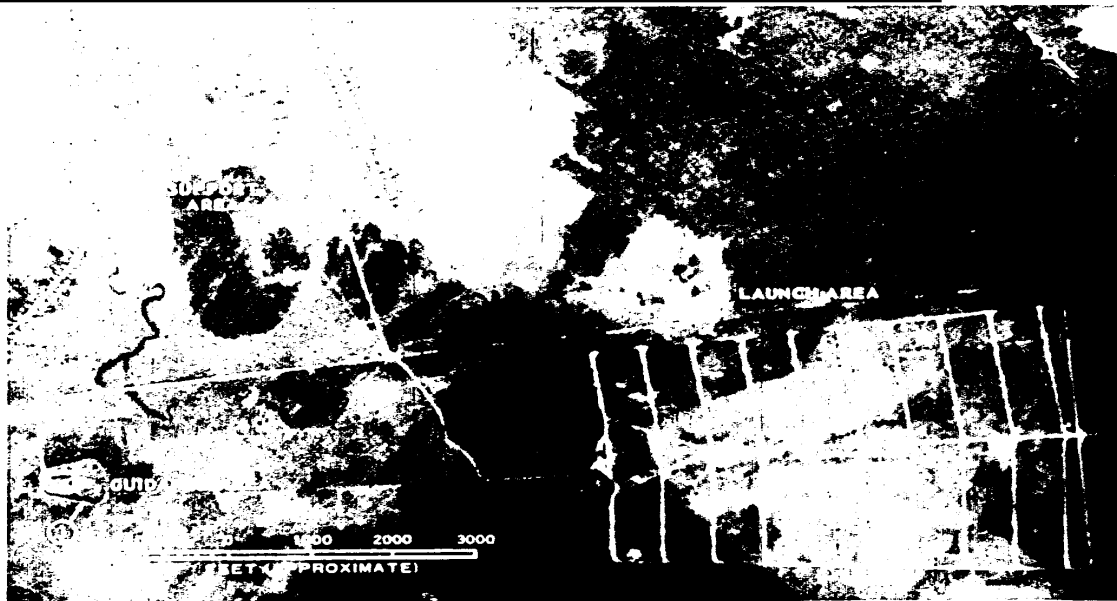
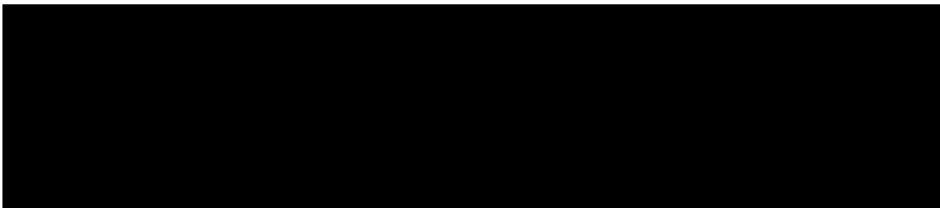


FIGURE 10. MOSCOW SAM SITE E13-1, [REDACTED]

25X1D

TOP SECRET RUFF

TOP SECRET RUFF

NPIC/R-90/64

MOSCOW SAM SITE E14-1

25X1A

25X1D

BE No: [REDACTED]
NPIC Target No: 0167-122-D1
Coords: 55-15N 38-32E
Map Ref: DIA Sheet 0167-5HL, Apr 63 (S)
First KEYHOLE coverage: [REDACTED]
Status then: undetermined because of haze

and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No apparent changes were observed at the site between [REDACTED]

25X1D

25X1D



FIGURE 11. MOSCOW SAM SITE E14-1. [REDACTED]

25X1D

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TOP SECRET RUFF

25X1D

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TOP SECRET RUFF

NPIC R-90, 64

25X1D

25X1A

MOSCOW SAM SITE E15-1

BE No: [REDACTED]
NPIC Target No: 0167-122-E
Coords: 55-09N 38-22E
Map Ref: DIA Sheet 0167-10HL, Feb 63 (S)
First KEYHOLE coverage: [REDACTED]

Status then: undetermined because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete, but some additions were observed in the support area and the site facilities. Four large buildings, 195 by 40 feet, had been constructed in the support area and an access road was under construction parallel to the launch area. Between [REDACTED] construction activity, possibly AMM associated, was observed at the southeast corner of the launch area. In [REDACTED] a fifth 195- by 40-foot building had been added to the

support area and an unidentified ground pattern (Figure 12, Item 1) was observed near the center-line of the launch area. Later in [REDACTED] a sixth 195- by 40-foot building was identified in the support area and two buildings (Items 2 and 3), 100 by 100 feet, with objects on the roofs had been constructed at the southeast corner of the launch area. The walls of a rectangular building (Item 4) were under construction just south of the 100- by 100-foot buildings.

In addition to the above changes, four buildings (Item 5), 110 by 35 feet, 95 by 30 feet, 85 by 30 feet and 55 by 25 feet, had been observed under construction on [REDACTED] photography. These buildings were completed by [REDACTED] the rectangular building 225 by 125 feet (item 4) had been completed and a plus-configuration scar (Item 6, possibly ditching for cable connections, was observed at the south side of the launch area.

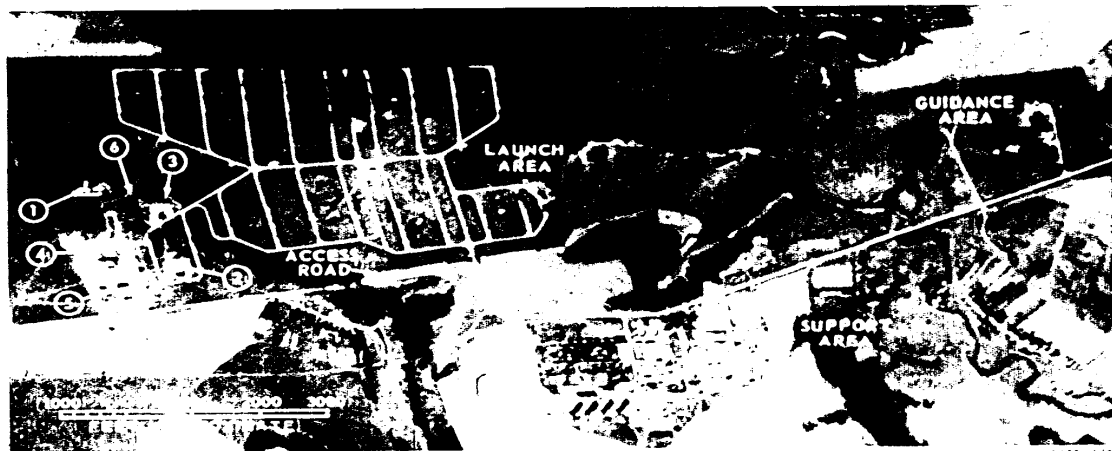


FIGURE 12. MOSCOW SAM SITE E15-1, [REDACTED]

- 21 - 25X1D

TOP SECRET RUFF

25X1D

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TOP SECRET RUFF

NPIC/R-90/64

MOSCOW SAM SITE E16-1

25X1A

25X1D
25X1D

BE No: [REDACTED]
NPIC Target No: 0167-122-F
Coords: 55-05N 38-10N
Map Ref: DIA Sheet 0167-10HL, Feb 63 (S)
First KEYHOLE coverage: [REDACTED]
Status then: undetermined because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. At that time, a road (Figure 13, Item 1) was under construction. In [REDACTED], two earth scars (Items 2 and 3) were observed. No other significant changes were observed at the site between [REDACTED]

25X1D
25X1D

25X1D

TOP SECRET RUFF

TOP SECRET RUFF

NPIC/R-90/64

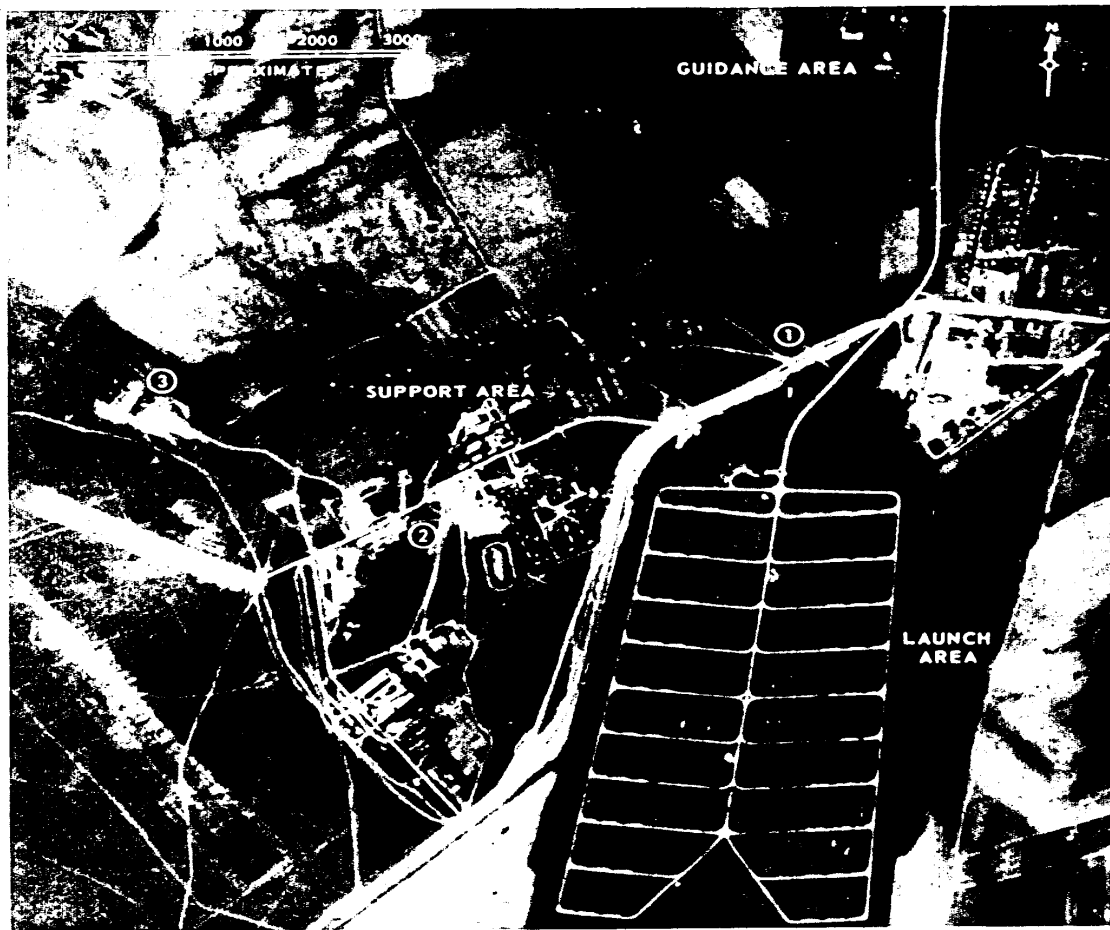


FIGURE 13. MOSCOW SAM SITE E16-1, [REDACTED]

25X1D

- 24 -

TOP SECRET RUFF

TOP SECRET RUFF

NPIC/R-90/64

MOSCOW SAM SITE E17-1

25X1D

25X1A BE No: [REDACTED]
NPIC Target No: 0167-122-G
Coords: 55-02N 37-55E
25X1D Map Ref: DIA Sheet 0167-10HL, Feb 63 (S)
25X1D First KEYHOLE coverage: [REDACTED]
Status then: undetermined because of haze and

darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED], at which time the site was complete. No apparent changes were observed at the site between [REDACTED] (Figure 14).

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

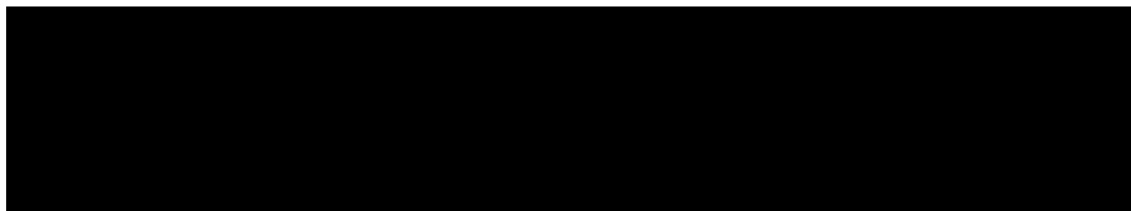


FIGURE 14. MOSCOW SAM SITE E17-1. [REDACTED]

- 25 -

25X1D

TOP SECRET RUFF

TOP SECRET RUFF

NPIC/R-90/64

MOSCOW SAM SITE E18-1

25X1A

25X1D

25X1D

25X1D

BE No [REDACTED]
NPIC Target No: 0167-122-H
Coords: 55-01N 37-42E
Map Ref: DIA Sheet 0167-10HL, Feb 63 (S)
First KEYHOLE coverage: [REDACTED]

on KEYHOLE photography was on [REDACTED]
it was possible to determined from [REDACTED]
photography that the site was complete. An open
trench (Figure 15, Item 1), which may be a pos-
sible small arms range, and several earth scars
(Item 2) were also observed on [REDACTED] pho-
tography. No apparent changes were observed
at the site between [REDACTED]

Status then: undetermined because of haze
and darkness

Although the first clear coverage of the site

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

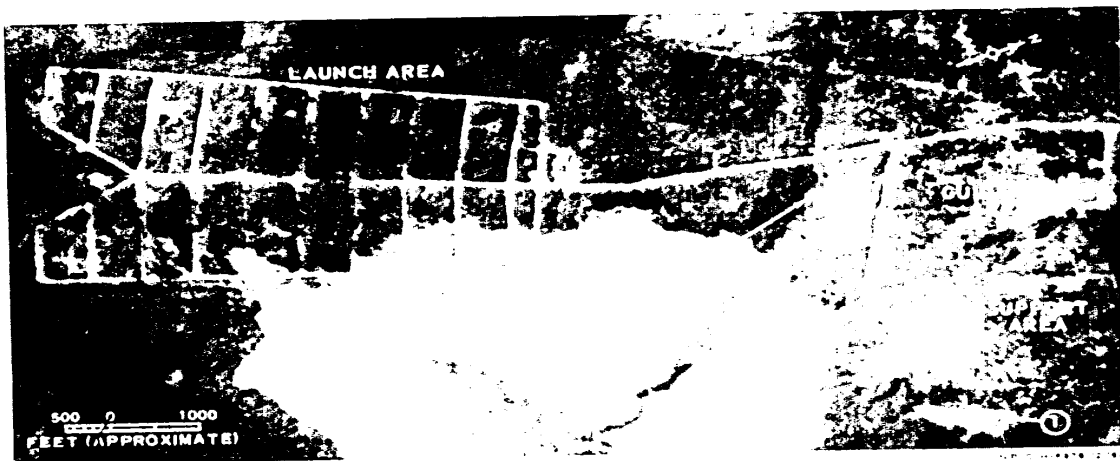
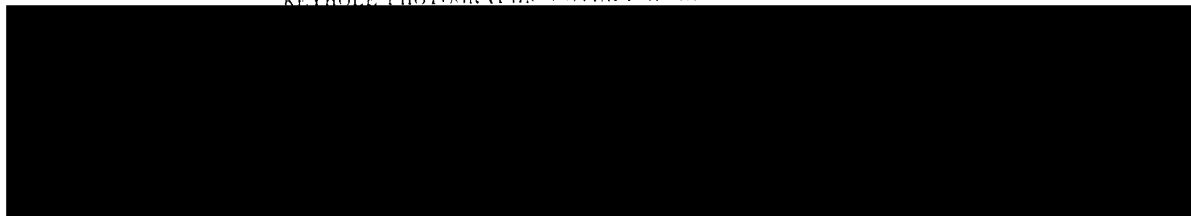


FIGURE 15. MOSCOW SAM SITE E18-1, [REDACTED]

25X1D

TOP SECRET RUFF

TOP SECRET RUFF

NPIC/R-90/64

REFERENCES

REQUIREMENT

CIA. RR3-80875

NPIC PROJECT

JN-212-62 (partial answer)

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TOP SECRET RUFF